

GREEN RIVER BASIN

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09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°29'36", long 110°34'39", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 9, T. 1 N., R. 6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Lower Stillwater damsite "B", 0.1 mi upstream from Corral Creek, 6.8 mi downstream from South Fork, and 11.9 mi northwest of Mountain Home.

DRAINAGE AREA.--147 mi².

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area, WDR UT-95-1; 1994.

GAGE.--Water-stage recorder. Elevation of gage is 7,250 ft above NGVD of 1929, from river-profile map. Prior to April 12, 1939, nonrecording gage at site 300 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow partially regulated by Upper Stillwater Reservoir 8 mi upstream, beginning November 3, 1987. Total capacity, 32,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s, Jun 18, 1971, gage height, 5.98 ft; maximum gage height, 6.26 ft, Jun 4, 1986, from floodmarks; minimum recorded, 7.0 ft³/s, Mar 13, 1940, Mar 20, 1942 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86 ft³/s, Jul 19, 20, gage height, 2.21 ft; minimum discharge, 20 ft³/s, Feb 17.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	42	36	37	47	49	39	38	60	52	66	59
2	51	e43	36	37	39	45	39	42	60	51	66	49
3	49	38	36	38	36	41	39	43	59	52	66	47
4	45	38	37	38	35	40	41	43	59	51	64	46
5	44	38	37	38	40	e46	43	42	59	51	64	46
6	44	38	37	37	33	42	e47	42	60	50	65	47
7	44	38	35	36	35	42	43	46	61	50	66	48
8	43	40	33	35	37	41	42	49	61	52	65	47
9	43	41	34	35	39	41	41	50	61	63	65	48
10	43	39	35	36	37	42	41	48	62	70	65	50
11	43	38	36	35	36	44	42	47	61	70	68	47
12	43	e45	37	35	35	44	40	45	63	74	71	47
13	43	38	37	34	37	44	40	43	64	74	68	46
14	43	37	37	35	41	44	40	43	63	74	63	46
15	42	37	38	33	40	42	40	45	61	77	62	46
16	42	37	37	34	40	45	39	44	60	77	62	47
17	42	37	39	34	52	43	39	44	61	78	63	46
18	42	37	36	34	44	42	39	45	61	78	61	47
19	43	37	34	35	e47	43	39	45	60	80	61	47
20	43	38	37	35	43	45	39	45	60	80	60	47
21	43	38	38	35	43	42	39	46	59	79	61	47
22	e43	38	39	34	43	42	41	47	60	78	65	47
23	e45	38	36	35	45	42	40	49	62	79	64	46
24	e44	38	34	34	44	41	39	51	65	80	63	46
25	e44	37	34	35	42	40	39	51	60	79	64	46
26	44	35	34	35	44	41	38	53	58	78	62	46
27	43	36	38	37	46	40	38	56	56	77	63	47
28	42	37	39	37	e50	40	38	58	55	75	62	47
29	42	37	38	38	---	e41	38	59	54	72	63	47
30	44	36	37	39	---	39	38	61	53	71	65	47
31	42	---	38	44	---	39	---	61	---	70	63	---
TOTAL	1,354	1,146	1,129	1,114	1,150	1,312	1,200	1,481	1,798	2,142	1,986	1,419
MEAN	43.7	38.2	36.4	35.9	41.1	42.3	40.0	47.8	59.9	69.1	64.1	47.3
MAX	51	45	39	44	52	49	47	61	65	80	71	59
MIN	42	35	33	33	33	39	38	38	53	50	60	46
AC-FT	2,690	2,270	2,240	2,210	2,280	2,600	2,380	2,940	3,570	4,250	3,940	2,810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2003, BY WATER YEAR (WY)

MEAN	56.2	52.9	50.0	47.2	47.0	49.7	49.4	113	224	178	88.8	74.2
(WY)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1999)	(1997)	(1999)	(1998)	(1999)
MAX	133	135	137	123	111	116	111	431	743	599	241	253
(WY)	(1990)	(1990)	(1991)	(1991)	(1988)	(1988)	(1988)	(1995)	(1992)	(1992)	(1991)	(1993)
MIN	32.0	30.2	29.5	27.3	29.0	29.9	33.5	41.3	43.7	44.0	41.8	38.4
(WY)	(1990)	(1990)	(1991)	(1991)	(1988)	(1988)	(1995)	(1992)	(1992)	(1991)	(1991)	(1993)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1988 - 2003
ANNUAL TOTAL	16,450	17,231	
ANNUAL MEAN	45.1	47.2	
HIGHEST ANNUAL MEAN			85.9
LOWEST ANNUAL MEAN			212
HIGHEST DAILY MEAN	74	Jul 3	40.1
LOWEST DAILY MEAN	32	Jan 17	22
ANNUAL SEVEN-DAY MINIMUM	33	Jan 15	26
ANNUAL RUNOFF (AC-FT)	32,630	34,180	62,260
10 PERCENT EXCEEDS	59	64	150
50 PERCENT EXCEEDS	42	43	46
90 PERCENT EXCEEDS	36	36	33

e Estimated

